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MOLLUSCA

COMPILED BY

A. E. SALISBURY, A.M.I.E.E.

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Note.—The arrangement here used follows in general that of Thiele's Handbuch. The most important differences are that Epitonacea and Pyramidellacea are placed immediately preceding Muriacea in order of grouping and the families Triviidae and Eratoidae are placed in Lamellariacea.

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Chaetoderma nitidulum Loven 1842, fig., E. LELOUP 494.

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Proneomenia nierstrasyi sp. nov. of Proneomeniidae Gulf of Naples, H. A. STORK Zoologica, Stuttgart 36 99 1940 pp. 3 57 pl. x f. 179–185 pl. xv f. 10; *Proneomenia antarctica* figs., S. O. HOFFMAN 345.

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Bellerophonitidae pallial organs, M. HENRI & G. TERMIER 331.

†*Emarginula entrevesiensis* sp. nov. Albian S.E. France, M. BREISTROFFER Trav. Lab. Géol. Univ. Grenoble 23 1942 p. 107.

†*Emarginula breistrofferi* sp. nov. Albian S.E. France, G. DELPEY Trav. Lab. Geol. Univ. Grenoble 23 1942 p. 88 pl. 1 f. 11–12.

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Erohaliotis cyclobates (Peron) Voy. Discov. Terres Austr. 2 1816 p. 80. Common at type locality Kangaroo Island and occurs at Murchison but absent in the S.-W., B. C. COTTON 168.

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Lottia gigantea and Protozoan parasites, H. I. HIRSHFIELD 339.

†*Lottia ? jourdonensis* sp. nov. Albion, S.E. France, G. DELPEY Trav. Lab. Géol. Univ. Grenoble 23 1942 p. 93 pl. ii f. 2, 3.

Patella vulgata and *depressa* caretoid distribution in the gonads, T. W. GOODWIN 298; *P. barbara* distributed along the entire South African coastline fig., H. S. KOCH 434; *P. cochlear* found from Buffels River on west coast of S. Africa to Natal, fig., H. J. KOCH 434; *P. vulgata* and *P. depressa* caratenoids of the gonads, T. W. GOODWIN & M. M. TAKE 299; Hermaphroditism in *Patella*, G. M. MONTALENTI 575.

†*Scurria minchinhamptonensis* sp. nov. *Patella inornata* Morris & Lycett 1851 non Lycett 1850 Great Oolite Minchinhampton, L. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 53.

TROCHACEA

Astraea tuber dominica subsp. nov. St. Thomas, Tortola and Dominica, A. H. VERRILL Min. Conch. Club. S. Calif. 101 June 1950 pp. 5, 7 f. 1-6.

†*Calliomphalus* (*Metriomphalus*) *scebelensis* sp. nov. Cretaceous Somaliland, G. TAVANI Palaeontogr. ital. Pisa 45 1949 p. 19 pl. 1 (xii) f. 11.

†*Calliostoma ligeriense* nom. mut. p. 30 pl. 1 f. 26; *C. (Jujubinus) pseudoturricula* p. 32 ex D. & Dtz. MSS., spp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Callotrochus* Kutassy 1938 nom. nov. = *Mesotrochus* (Kutassy) 1927 non Wasmann 1890 type *C. triadicus* Kutassy "[*Mesotrochus*]" Trias., W. WENZ Handb. Palaeozool. 3 6, 1 1938 p. 280.

†*Chartroniella imfrastrata* sp. nov. Paraturbiniidae = *Monodonta sparsistriata* Lycett 1863 (partim); *C. huddlestoni* sp. nov. *Trochus spiratus* d'Archiac, Huddleston 1894, non d'Archiac, L. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 56.

†*Eucyclus* (*Onkospira*) *clansayensis* sp. nov. Albian, S.E. France, M. BREISTROFFER Trav. Lab. Geol. Univ. Grenoble 23 1942 p. 101.

Gibbula nobonii sp. nov. Coromandel Coast, India, H. C. RAY Rec. Indian Mus. Calcutta 1949 46 p. 90 pl. iii f. 1, 2.

†*Gibbula pontileviensis* p. 25 pl. 1 f. 20, 21; sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Globonema* subgen. nov. of *Trochomena* Salter 1859, type *T. (G.) bicarinatum* (Koken) Silurian (Ordovician), W. WENZ Handb. Palaeozool. 1 6, 1 1938 p. 228.

†*Islipia* gen. nov. Turbinidae type *Monodonta lycetti* Lycett, Bradford fossil bed, Islip, Oxon, L. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 61.

Monodonta lineata (Costa) *Calliostoma zizyphinum* (Lk.) 302.

†*Pachypoma damon monocarinatum* var. nov. Cordova d'Ampezzo, LEONARDI & FISCON Mem. Mus. Stor. nat. Venez. Trident. 8 3 1948 p. 47 pl. 1 f. 10 a-c.

†*Palaeoturbina* nom. nov. = *Turbina* Koninek 1883 non Hermannsen 1847, W. WENZ Handb. Palaeozool. 1 6, 1 1938 p. 234.

†*Proconulus beani* nom. nov. = *Trochus subglaber* Hudleston 1885 non Münster 1841, L. R. COX & W. S. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 59.

Scaliconus Spriestersbach nom. nov. = *Piliolus* Priest. 1919 non Cookson in Sowerby 1823 type (Knight 1937); *S. obliquus*, W. WENZ Handb. Palaeozool. 3 6, 1 1938 p. 260.

Solarioirbis suzonus sp. nov. Sebastian, Indian River Co., Florida, H. A. PILSBRY & T. L. MCGINTY Nautilus, Philad. 63 3 1950 p. 85 pl. 5 f. 7, 7a.

†*Stuorella tofanæ* p. 45 pl. i f. 6 a, b, 7 a-c; *S. costalaricensis* p. 46 pl. 1 f. 8 a-c spp. nov. Cortina d'Ampezzo, LEONARDI & FISCON Mem. Mus. Stor. nat. Venez. Trident. 8 3 1948.

†*Tegula* (*Chlorostoma*) *protonigerrima* sp. nov. Miocene, Moniwa Shell Bed, Kita-Akai, Minami-Akai, Japan, S. NOMURA Sci. Rep. Tôhoku Univ. 21 1 1940 p. 32 pl. III (III) figs. 15, 16.

†*Tinostoma* [*Teinostoma* ?] *turonense* p. 39 pl. 1 f. 32, 33 sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Trochopsidea* **nom. nov.** = *Trochopsis* Gemmellaro 1879 non Ehrenberg 1832 type *T. moroi* (Gemm.) "[*Trochopsis*]" Lias, W. WENZ Handb. Paläozool. 3 6, 1 1938 p. 259.

†*Trochus zardinii* **sp. nov.** Cortina d'Ampezzo, LEONARDI & FISCON Mem. Mus. Stor. nat. Venez. Trident. 8 1948 p. 47 pl. 1 f. 11 a-d.

†*Trochus gaisi* **sp. nov.** Goisi, pl. III (III) fig. 17; *T. oedensis*, Minami-Akasi, Moniwa, Kita-Akasi, Japan pl. III (III) figs. 19a, 19b **spp. nov.** Miocene of the Moniwa Shell Bed, S. NOMURA Sci. Rep. Tôhoku Univ. 21 1 1940.

Turbo parvuloides **sp. nov.** Minami-Akasi. Miocene of the Moniwa Shell Bed, Japan, S. NOMURA Sci. Rep. Tôhoku Univ. 21 1 1940 p. 35 pl. III (III) figs. 12a, 12b.

Turbo marmoratus. The use of the opercula for ornamental purposes and as a paving, figs., W. S. S. & B. JUTTING 405; *T. petholatus* shell structure figs., E. KESSEL 419; On the Turboglaucobiline pigment of the shells of *Turbo*, R. TIXIER 814.

†*Turboides jacobii* **sp. nov.** Albion, S.E. France, M. BREISTROFFER Trav. Lab. Géol. Univ. Grenoble 23 1942 p. 106.

†*Turcica preimperialis* **sp. nov.** Minami-Akasi, Kita-Akasi, Kumano-do, Japan. Miocene of the Moniwa Shell Bed, S. NOMURA Sci. Rep. Tôhoku Univ. 21 1 1940 p. 34 pl. III (III) figs. 20a, 20b.

Venustus blacki **sp. nov.** Eastern Otago 70 fm. N.Z., A. W. B. POWELL Rec. Auckland Inst. Mus. 4 1 1950 p. 80 pl. 7 f. 3, 4.

LOXONEMATACEA

†*Ataxotrochus* **nom. nov.** = *Pseudotrochus* Kittl. 1899 non Heilprin 1887 type *A. meta* (J. Böhm) "[*Lissochilina*]" Trias, W. WENZ Handb. Paläozool. 3 6, 1 1938 p. 391.

†*Heterogyrella* **nom. nov.** = *Heterogyra* Kittl. 1899 non Reuss 1868 type *Trypanostylus* (H.) *ladina* Kittl. Trias, W. WENZ Handb. Paläozool. 3 6, 1 1938 p. 396.

†*Katosira seelandica paucispinata* **var. nov.** Cortina d'Ampezzo, LEONARDI & FISCON Mem. Mus. Stor. nat. Venez. Trident. 8 3 1948 p. 52 pl. ii f. 8 a, b, 9 a, b.

†*Loxonema sera* **sp. nov.** Albion, S.E. France, G. DELPEY Trav. Lab. Geol. Univ. Grenoble 23 1942 p. 89 pl. ii f. 14, L. (*Anoptychia*) *canaliferum rectilineatum* **var. nov.** Cortina d'Ampezzo, LEONARDI & FISCON Mem. Mus. Stor. nat. Venez. Trident. 8 3 1948 p. 52 pl. ii f. 10.

†*Spirocyclus* **nom. nov.** = *Spirocyclina* Kittl. 1894 non Munier-Chalmas 1887 Trias, W. WENZ Handb. Paläozool. 3 6, 1 1938 p. 401.

NERITACEA

†*Ampullina mererale* **sp. nov.** p. 21 pl. iii (xiv) f. 1; *A. gigantea* p. 21 pl. iii (xiv) f. 4 **spp. nov.** Cretaceous, Somaliland, G. TAVANI Palaeontogr. ital. Pisa 45 1949.

Helicina fasciata caymanensis **subsp. nov.** Cayman Brac., H. A. PILSBRY Nautilus, Philad. 63 2 1949 p. 40 pl. 3 f. 7.

Hendersonia occulta (Say) in Pennsylvania, G. K. MACMILLAN 522.

Lissochilus bathonicus **nom. nov.** *Nerita cancellata* Morris & Lycett 1851 non Hermann 1781, S. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 64.

Neritina reclinata Say 1822 (f. 1 a-c); *N. meleagris* Lk. 1822 (f. 2), A. N. TEN BROEK 113.

†*Neritopsis armata cortinensis* **var. nov.** p. 48 pl. i f. 13; *N. subornata* **var. nov.** p. 49 pl. i f. 15 a, b, Cortina d'Ampezzo, LEONARDI & FISCON Mem. Mus. Stor. nat. Venez. Trident. 8 3 1948.

Theodoxus fluviatilis (L.) *radula* figd., A. D. J. MEEUSE 554.

†*Theodoxus nalinikini* **spec. nov.** Nertcha river, Eastern Transbaikalia, Russia, Tertiary, MARTINSON, G. G. C. R. Acad. Sci. Moscou N. S. 74 1950 p. 574 fig. 544 [Russian].

CYCLOPHORACEA

Diplommata tonkiniana **sp. nov.** Tonkin, S. JAECKEL snr. Arch. Mollusk. 79 1900 p. 19 pl. 1 f. 5.

Diplommantina of Borneo, a list of species, F. F. LAIDLAW 467.

Paludina vivipara Osphradium, C. WÖLPER 886.

Pomacea (Limnopomus) meridaensis sp. nov. Venezuela = *Ampullaria interrupta* Alderson 1924; 1925 52 pl. 11 f. 7 (non Sowerby, 1909), T. PAIN J. Conch. 23 4 1950 p. 109.

Pomacea (Ampallariidae) species of British Guiana, figures, T. PAIN 620.

†*Tulotomoides* gen. nov. Viviparidae type *T. kwangsiensis* (Hsü) "[Tulotoma]" Pliocene, W. WENZ Handb. Paläozoologie 4 6, 1 1939 p. 497 f. 1295.

†*Tulotomops* subgen. nov. Viviparus type *V. (T.) thompsoni* (White) "[Tulotoma]" Upper Cretaceous, W. WENZ Handb. Paläozoologie 4 6, 1 1939 p. 491 f. 1275.

Viviparus Montfort, on the nomenclature of the species, C. R. BOETTGER 93; *V. fasciatus* shell structure, figs., E. KESSEL 419; *V. chinensis* a note on breeding and growth, D. L. FREAS 272; *V. viviparus* embryology and its significance relative to the phylogeny of Gastropods, J. JOHANSSON 391.

VALVATACEA

Glenchiella, *Valvata* (?) *microscopica* Nevill 1877 referable to this genus, R. T. ABBOTT 17.

†*Valvata truckeensis* sp. nov. Truckee formation? Pliocene, Nevada, T. C. YEN Amer. J. Sci. New Haven 248 1950 181 184 185 pl. 1, f. 3.

Valvata piscinalis (Müller) notes, L. A. W. C. VENMANS 836.

LITTORINACEA

Acme, *Acmea*, *Acmaea* not to be regarded as homonyms but suppression of *Acmea* is sub judice at present, OPINIONS, ETC. 10.

†*Amberleya bathonica* sp. nov. *A. (Pagodus) nodosa* (Buckman) Morris & Lycett 1851 non *Terebra nodosa* J. Buckman, L. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 56.

Chondropoma schaliei sp. nov. Certo Capron, E. of Guanica Harbour, H. B. BAKER Nautilus, Philad. 63 3 1950 p. 108.

Chondropoma schaliei description and further data, H. B. BAKER 55.

Littorina nebulosa (Lk. 1822) (f. 3), A. N. TEN BROEK 113; *L. neritoides* L. infestation and variation, P. IHM 371; *L. saxatilis* (Oliv.) resistance to lowered salinity, N. F. McMILLAN 524; *L. pintado* Wood spawning and development, J. M. OSTERGAARD 617; *L. neritoides* L. new biological data, L. PATANÈ 630; *L. neritoides* L. Tropism, L. PATANÈ 631; *L. littorea*—on the wandering of, figs., W. SCHÄFER 730; *L. littorea* L. variation, B. J. J. R. WALRECHT 857; *L. irrorata* (Say) anatomy of the alimentary tract, figs., H. J. WERNER 871; *L. littorea* (L.) 302.

Mirolacuna nom. nov. *Strebilorhamphus* Tate 1897 non Cabanis 1860, *Sublacuna* Cossmn. 1899 a non Pilsbry 1895 type *M. mirula* (Tate) "[*Strebilorhamphus*]," W. WENZ Handb. Paläozoologica 4 6, 1 1939 p. 515 f. 1351.

Tropidophora fimbriata haemastoma Anton, L'Île Ronde, J. VINSON 848.

RISSOACEA

†*Alvania curta micolongata* var. nov. p. 97; *A. tigrina* p. 98; *A. (Alvinia) daguini* p. 100 pl. ii f. 34, 39; *A. (Arsenia) falunica* p. 102; *A. (Arsenia) pulcherrima* p. 102; spp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Amnicola truckeensis* sp. nov. Truckee formation, ? Pliocene, Nevada, T. C. YEN Amer. J. Sci. New Haven 248 1950 pp. 181, 184, 185 pl. 1 f. 4, 4a, b.

Amphithalamus dysbatus sp. nov. Snake Creek Plantation Key, Upper Florida Keys, PILSBRY & MCGINTY Nautilus, Philad. 63 1949 p. 14 pl. 1 f. 7.

†*Andrusowiella* nom. nov. Rissoacea *Sandria* Andrussow 1890 non Brusina 1885 type *P. (A.) atava* Andrussow "[*Sandria*]" Lower Pliocene, W. WENZ Handb. Paläozoologie 4 6 1 1939 p. 568 f. 1533.

Assimineae grayana Leach, figs., K. SANDER 727.

Blanfordia on infection by *Schistosoma japonicum*, R. T. ABBOTT & G. W. HUNTER III 18; B.. infection by *Schistosoma japonicum* experiment, HUNTER, ABBOTT, PAN & STRAY 369.

Bithynia tentaculata (L.) notes, L. A. W. C. VENMANS 836.

†*Calvadosiella* **nom. nov.** *Calvadosin* Cossmann 1921, non Clarke 1863 type *T. (C.) brasili* (Cossmann) Upper Jurassic "[*Trochoturbella Calvadosia*]," W. WENZ Handb. Paläozoologie 4 6, 1 1939 p. 620 f. 1730.

†*Cingula miocenica* p. 106 pl. ii f. 41, 47; *C. paulmyensis* p. 107 pl. ii f. 42, 46; *C. turonensis* p. 107 pl. ii f. 33, 40; *C. (Setia) ligeriana* p. 108 pl. ii f. 36, 37 **spp. nov.** Helvetian, Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

Floridiscrobs **subgen. nov.** of *Amphithalamus* or *Scrobs* subgenotype *A. dysbatus* **sp. nov.** [q.v.], PILSBRY & MCGINTY Nautilus, Philad. 63 1949 p. 15 pl. 1 f. 7.

†*Fluminicola yatesiana inflata* **subsp. nov.** Truckee formation, ? Pliocene, Nevada, T. C. YEN Amer. J. Sci. 248 1950 pp. 181, 184, 186 pl. 1, f. 5, 5a.

Fontigens weberi **sp. nov.** Florida p. 39 pl. 3 f. 2; *Fontigens oxybeles* **sp. nov.** Florida, H. A. PILSBRY Nautilus, Philad. 64 1950 pl. 3 f. 1, 1a, b.

Fukuia **gen. nov.** Amnicolidae type *Fukuia kurodai* **sp. nov.** Takeda mura, along Takeda River, near Maruoka City, Fukui Prefecture, Honshu Island, Japan, and infection by *Schistosoma japonicum* pp. 79-80 pl. 1 f. 6 pl. 2 f. 4; *F. multistriata* **sp. nov.** Takefu in Kamiyama-Muza, Nanjo-Gun, Fukui Prefecture, Honshu Island, Japan p. 82 pl. 1 f. 5 pl. 1, 2 f. 5 and 11, R. T. ABBOTT & G. W. HUNTER III Proc. Helminth. Soc. Washington 16 2 1949.

†*Gyromelania* **subgen. nov.** *Micromelania* ? Thaumasia, Westerlund 1903 non Perty 1830 type *M. (G.) klaiči* Brusina Pliocene, W. WENZ Handb. Paläozool. 4 5 1 1939 p. 595 f. 1631.

Haurakia bountyensis **sp. nov.** Bounty Islands, R. K. DELL Dom. Mus. Rec. Zool. Wellington N.Z. 1950 p. 24 f. 5.

Hyala vitrea, figs., J. JOHANSSON 392.

Hydrobia hendrickxi **sp. nov.** on Lemna from Kakondo, E. Belgian Congo, B. VERDCOURT Rev. Zool. Bot. Afr. 43 1950 p. 213, 214 text-figs.; *Hydrobia jenkinsi* 'passive' dispersal, S. HUBENDICK 360; *H. (Potamopyrgus) jenkinsi* Smith in the pond at Canet and environments, G. PETIT 637.

†*Hydrobia truckeensis* **sp. nov.** Truckee formation ? Pliocene, Nevada, T. C. YEN Amer. J. Sci. 248 1950 pp. 181, 184, 186 pl. 1, f. 6.

†*Lacunorbis* **gen. nov.** Amnicolidae type *nevadensis* **sp. nov.** Truckee formation ? Pliocene, Nevada, T. C. YEN Amer. J. Sci. 248 1950 pp. 181, 184, 187 pl. 1 f. 7, 7a-b.

Lartetia (?) **spec. nov.** in caves of Western Transcaucasus. No description, BIRSHTEN, Y. A. Zool. Journ. Moscow 29 1950 p. 356 82.

Lithococcus venustus **sp. nov.** between Boca de Napi and Suarez Dep. of Nerino, Western Colombia, H. A. PILSBRY Nautilus, Philad. 63 1950 p. 82 pl. 5 f. 1, 1a-b.

†*Manzonina* (*Taramellia*) *miovaricosa* **sp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 105 pl. ii f. 35, 38.

†*Nystia cylindrica* **sp. nov.** (Dol. & Daetz, sp. nom. med.) Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 112.

Oncomelania bionomics of the hosts of *Schistosoma*, figs., H. F. HSU 353; *O. quadrasi* control of Schistosomiasis, D. B. McMULLEN & O. H. GRAHAM 526; *O. nosophora* in the Zone R., Japan, L. S. RITCHIE, G. W. HUNTER & C. PAN 713; *Oncomelania* and Schistosomiasis geographical distribution of molluscan hosts, tables, W. H. WRIGHT 888.

Parviturboides **gen. nov.** Vitrinellidae genotype "*Cyclostrema*" *sanibelensis* Pilsbry, H. A. PILSBRY & T. L. MCGINTY Nautilus, Philad. 63 1950 p. 86.

Pyrgula wagneri Polinski, *P. macedonica* Brusina, *P. sturanyi* Brusina, figs. pl. v. p. 274, A. THIENEMANN 808.

Rissoa membranacea, figs., J. JOHANSSON 392.

†*Rissoina ancliffensis* **nom. nov.** *Rissoa acuta* J. de C. Sowerby 1829 non Fréminville 1814, L. A. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 68.

†*Scalimelania* **subgen. nov.** *Micromelania*, type *M. (S.) ptychophora* Pliocene, Brusina, W. WENZ Handb. Paläozoolog. 4 6, 1 1939 p. 595 f. 1630.

†*Stenothyrella* gen. nov. "[Sandbergeria Weink 1860 non Bosquet 1860]" Stenothyridae type *S. lubricella* (F. Sandberger) ["*Nematura*"] Pliocene, W. WENZ Handb. Paläozoologie 4 6-1 1939 p. 588 f. 1610.

Tricula, on infection by *Schistosoma japonicum*, R. T. ABBOTT & G. W. HUNTER III 18; *Tricula*, infection by *Schistosoma japonicum*, experiments, HUNTER, ABBOTT, PAN & STRAY 369.

CERITHIACEA

†*Anteglosia* gen. nov. Litiopidae (?) genotype *Anteglosia essoensis* sp. nov. Cretaceous, 4875-4885 ft. in the Maryland Esso well, H. A. VOKES Maryland Dept. Geol. Mines & Water Resources Bull. 2 1948 pp. 146, 147 pl. iv figs. 9-12.

†*Bezanconia* (*Colinia*) *elegantissima* p. 146 pl. ii f. 7, 13; *B. (C.) delaunayi* p. 147 spp. nov. Helvetian Touraine, A. PEYROT Act. Linn. Soc. Bordeaux 89 Suppl. 1938.

†*Bittium mantheianense* sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 156 pl. iii 36, 41.

†*Brachytrema cotswoldense* sp. nov. p. 70 *Fusus subnodulosus* Orb. Morris & Lycett (non Orb.); *B. lycetti* nom. nov. p. 70 *Fusus coronatus* Morris & Lycett 1851 non Lk. 1803 pp. 70, 71; *B. depressum* nom. nov. p. 71; *Turbo pygmaeus* Morris & Lycett 1851 non Desh. 1832; *B. acutum* nom. nov. p. 71 *Fusus multicostatus* Morris & Lycett 1851 non Anton 1839. L. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950.

†*Cassiope marylandensis* sp. nov. Cretaceous 4875-4885 ft. in the Maryland Esso Well, H. A. VOKES Maryland Dept. Geol. Mines & Water Resources Bull. 2 1948 p. 145 pl. iv figs 1-8.

†*Cerithium* (*Theridium*) *lecointreae* sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 143.

Clava obeliscus (Brug.) spawning and development, S. M. OSTERGAARD 617.

Fibulella Wenz 1940 rejected as being unnecessary vice *Fibula* Piette 1857, L. R. COX & J. S. ARKELL p. 76 174.

†*Glauconia* some species from the Cenomanian of Southern France, G. MENNESSIER 559.

Goniobasis proxima (Say) habitat and ecological notes, C. GOODRICH 297.

Hemisinus palaeus nom. nov. for *H. (Longiverena) arus* Pike (preoc.) Nautilus, Philad. 64 1950 p. 69.

†*Hudlestoniella shiptonensis* sp. nov. "*Cerithium*" *multivolutum* Piette, Blake 1905 (non Piette) L. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 63.

†*Mathildia togoinis* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 105 pl. ix f. 5.

Melania (*Radina*) *crenulata* Desh., var. *tirouri* Fér. Structure of the brood-pouch, K. RAMAMOORTHY 681.

†*Malaniptyxis witchelli* sp. nov. *Nerinea voltzii* Desl. Witchell 1886 non Deslongchamps (non Morris & Lycett), L. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 77.

Melanoides tuberculatus Müll.; *M. nicobaricus* Mörch; *M. (Plotia) scabra* Müll. Structures of the brood-pouch, K. RAMAMOORTHY 681; *M. tigrinus* Hutton 1849 var. *raoi* nov. p. 303 f. 1; *M. prashadi* sp. nov. p. 304 f. 2 Andaman Is., H. C. RAY Rec. Indian Mus. 45 1949; *Melanoides* and *Schistosomiasis* geographical distribution of molluscan hosts, tables, W. H. WRIGHT 888.

Melanopsis pareyssi, *M. hungarica*, figs. p. 212, A. THIENEMANN 808.

Mesalia auverensis nom. nov. for *Turritella herberti* Deshayes 1867 Eocene, non Arekiac & Haine 1854, lower miocene, F. E. EAMES Proc. Malac. Soc. London 28 1950 p. 62.

†*Mesalia* (?) *acirsoides* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 105 pl. ix f. 3.

†*Metacerithium oceanum* sp. nov. Cretaceous 4875-4885 ft. in the Maryland Esso Well, H. A. VOKES Maryland Dept. Geol. Mines & Water Resources Bull. 2 1948 p. 149 pl. iv figs. 21-23.

†*Neia* gen. nov. Potamididae genotype *Neia schencki* sp. nov. Miocene West Cliff about 50 metres south of bridge at Kakskata, Unohana Mura,

Nei-Gun, Toyama-Ken, Japan, K. HATAI & S. NISIYAMA J. Paleont. **23** 1 1949 p. 92 pl. 24 f. 12, 13.

†*Nerinea* (*Ptygmatis*) *somalica* sp. nov. Cretaceous Somaliland, G. TAVANI Palaeontogr. ital. Pisa **45** 1949 p. 5 pl. 1 (xii) f. 7, 8.

Nerinoides Wenz 1940 rejected as being unnecessary vice *Nerinella* Sharpe 1850, L. R. Cox & W. J. ARKELL p. 77 174.

Pachycheilus olssoni sp. nov. Rio de la Pasion between P. Sabal and Sayaxeke Peten, northern Guatemala, H. R. PILSBRY Nautilus, Philad. **63** 1950 p. 84 pl. 5 f. 2, 2a-b.

†*Pachychiloides* nom. nov. *Pachymelania* White 1895 non E. A. Smith 1893, type *P. (P.) cleburni* White "[Goniobasis]" Upper Cretaceous, W. WENZ Handb. Paläozoologie **4** 6, 1 1939 p. 686 f. 1969.

Paracerithium gardineri sp. nov. *Cerithium undulatum* (Desl.) Lycett 1863 non Deslongchamps sp., L. R. Cox & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 73.

†*Pirenella detrita* p. 152 pl. iii f. 1-6; *P. turoniensis* p. 154 f. 45 spp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux **89** Suppl. 1938.

†*Plesiopotamides* gen. nov. Potamididae ? genotype *Plesiopotamides marinus* sp. nov. Cretaceous 4875-4885 ft. in the Maryland Ezzo Well, H. A. VOKES Maryland Dept. Geol. Mines & Water Resources Bull. 2 1948 pp. 148-149 pl. iv figs. 14-20.

'*Plotia*' 'Bolton' Röding, is *P. lineata* Röd. H. A. PILSBRY 654.

Potamidae — systematic relative growth in shells, I. HAMAI & K. ITO 316.

†*Procerithium minchinhamptonensis* sp. nov. *Cerithium quadricinctum* Goldf. Morris & Lycett 1851, non Goldfuss; *P. chervellense* sp. nov. ? *Cerithium lorieri*, Hébert & Deslongchamps 1860, non Orb 1850, L. R. Cox & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 71; *P. (Rhabdocolpus) kirtlingtonensis* p. 72, *Cerithium multiforme*, Piette, Lycett 1863 non Piette; *P. (R.) holti* nom. nov. p. 72 *Cerithium ? compositum* Lycett 1863, non Bronn 1831; *P. (R.) lacockense* sp. nov. p. 72 *Kilvertia pulchra* Lycett 1863 non

Cerithium ? pulchrum Lycett 1863; *P. (R.) kilverti* nom. nov. p. 73 *Cerithium spiculum* Lycett 1863 non Deslongchamps 1842, L. R. Cox & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950.

Procerithium (Xystrella) tancredi *Cerithium bulimoides* Desl. Lycett 1863 non Deslongchamps; *P. (Xystrella) shiptonense Cerithium tortile* Hébert & Deslongchamps 1860 non Deslongchamps 1842, L. R. Cox & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 73.

†*Promathilda* (?) *peracuta elongata* var. nov. Cortina d'Ampezzo, LEONARDI & FISCON Mem. Mus. Stor. nat. Venez. Trident. **8** 3 1948 p. 54 pl. ii f. 13a-b, 14.

†*Pseudomelania elongata* sp. nov. Cretaceous Somaliland, G. TAVANI Palaeontogr. ital. Pisa **45** 1949 p. 17 pl. iv (xv) f. 5.

†*Pseudomalaxis parisoti* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. **27** 4 1948 p. 103 pl. viii f. 20.

Pseudoplotia subgen. nov. of *Plotia* subgenotype *Thiara (Pseudoplotia) scabra* (Müller) = *Buccinum scabrum* Müll. 1774, L. FORCART Arch. Mollusk. **79** 1950 p. 77.

†*Pyrazus wilkampi* sp. nov. Pliocene of Sekoerau Hill, E. Borneo, C. BUTO Leidsche Geol. Meded. **15** 1950 p. 306 f. 1-2.

†*Semisolarium breistrofferi* sp. nov. Albian, S. E. France, G. DELPEY Trav. Lab. Geol. Univ. Grenoble **28** 1942 p. 81 pl. 1 f. 1.

†*Solarium (Climacopoma) togoense* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. **27** 4 1948 p. 103 pl. viii f. 19.

†*Telescopium pakistanicum* nom. nov. for *Cerithium subtrochleare* Archiac & Haime 1854 non Orb 1852, P. E. EAMES Proc. Malac. Soc. London **28** 1950 p. 87.

Thericium chara p. 65 pl. 1 f. 11; *T. tymani* p. 66 pl. 1 f. 12 spp. nov. off Hudson, Florida, H. A. PILSBRY Nautilus, Philad. **63** 1950; *T. biminienae* sp. nov. Turtle Rock, Bimini, N. Bahamas, PILSBRY & MCGINTY Nautilus, Philad. **63** 1949 p. 13 pl. 1 f. 6, 6a, b.

†*Turritella krooni batukuensis* f. 1-3; *T. k. kalosiensis* f. 5-11; **subsp. nov.** Tertiary from south-west and Central Celebes, C. BEETS Leidsche geol. Meded. 15 1950 p. 286.

†*Turritella (Haustator) jherruclensis* **nom. nov.** for *Turritella halaensis* Cossmann and Pissarro 1909 non Cossmann 1904; *T. (Haustator) talarensis* **nom. nov.** for *T. subulata* Martin 1884 non Schaftäutl 1863, F. E. EAMES Proc. Malac. Soc. London 28 1950 p. 87.

†*Turritella (Haustator) dujardini* **sp. nov.** p. 121 pl. ii f. 16, 17; *T. (H.) trincincta minor* **var. nov.** p. 123 pl. ii f. 15, 18; Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Turritella*, Paleogene of Japan, T. KOTAKA 444.

Tympanotonos francfortanus **nom. nov.** for *Cerithium margaritaceum conicum* m. Boettger Tertiarf. 1869 non *Cerithium conicum* Blv. 1829, A. ZILCH & K. G. A. FISCHER Arch. Molluskenk. 79 1950 p. 151 figs.

Vermetidae feeding mechanism, J. E. MORTON 586; V. differences of the calcareous tubes from those of Serpulids, figs., A. WRIGLEY 889.

Vermetus intortus Lk. figs. Embryology, W. SCHMIDT 745.

†*Zeacolpus* "n. sp." [nom. nud.] Tertiary of Northern Taringatura Hills, New Zealand p. 444, D. S. COOMBS Trans. roy. Soc. N.Z. 78 4 1950.

AMALTHEACEA

†*Fossarus delpeyae* **sp. nov.** Alban, S.E. France, M. BREISTROFFER Trav. Lab. Geol. Univ. Grenoble 23 1942 p. 98.

Macromphalina palmarioris **sp. nov.** off Palm Beach, Florida, H. A. PILBRY & T. L. MCGINTY Nautilus, Philad. 63 1950 p. 85 pl. 5 f. 6, 6a.

CALYPTRAEACEA

†*Capulus natorianus* **sp. nov.** Kita-Akai, Miocene of the Moniwa Shell Bed, S. NOMURA Sci. Rep. Tôhoku Univ. 21 1 1940 p. 36 pl. III (III) fig. 18.

Crepidula fornicata "The Slipper Limpet" a pest of oyster beds, figs., ANON 11; *C. plana* Say, variation in

sexuality, W. R. COE 148; *C. plana* culturing in running sea water, H. N. GOULD 301; hermaphroditism in *Crepidula* and sex differentiation, M. DE LARAMBERGUE 474; *C. fornicata* (L.) in Torbay, P. P. MILMAN 567; *C. fornicata* failure of spatfall on the Essex Oyster beds, J. H. ORTON 613; *C. fornicata* breeding phenomena, J. H. ORTON 614; *C. fornicata* retention of distribution into Lyme Bay, English Channel, J. H. ORTON & A. H. ROGERS 615; *C. fornicata* distribution in Danish waters, R. SPÄRCK 766; *C. fornicata* distribution in R. Crouch, P. P. WALNE 255; *C. fornicata* and distribution and occurrence of spawn, B. WARNER 870.

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†*Chenopus (Phyllochilus) ogadensis* **sp. nov.** Cretaceous, Somaliland, G. TAVANI Palaeontogr. ital. Pisa 45 1949 p. 13 pl. 1 (xii) f. 4.

†*Dicroloma ? playnei* **sp. nov.** *Alaria cirrus* (Desl.) Morris & Lycett 1851 (non *Rostelbaria cirrus* Deslongchamps 1843), L. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 81.

†*Harpagodes somalicus* **sp. nov.** Cretaceous Somaliland, G. TAVANI Palaeontogr. ital. Pisa 45 1949 p. 11 pl. 1 (xii) f. 9.

†*Perissoptera carinata* **sp. nov.** Upper Cretaceous of the Atlantic Coast of Tierra del Fuego, G. FURQUE & H. H. COMACHO Riv. Assoc. Geol. Argentina 4 4 1949 p. 291 pl. iv f. 10.

†*Pietteia anglica* **sp. nov.** = *Alaria hamus* (Desl.) Morris & Lycett 1851 (non Deslongchamps), L. R. COX & W. J. ARKELL Mon. Pal. Soc. London Jan. 1950 p. 81.

Strombus costatus spectabilis **subsp. nov.** Dominica, A. H. VERRILL Nautilus, Philad. 63 1950 p. 127 pl. 9 f. 4.

Strombus of the Indo-Pacific—dimorphism and sexual dimorphism, R. T. ABBOTT 16; *Strombus maculatus* Nuttall spawning and development, J. M. ØSTERGAARD 617.

Struthiolariidae, Reproduction, Life History and Relationships, J. E. MORTON 581.

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Carinaria mediterranea radula gain,
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†*Amauropsis sanctae crucis conica*
p. 49 pl. ii f. 1 a, b; *A. s-c. ptychosto-*
moides p. 50 pl. ii f. 2 a, b vars. nov.;
A. (?) dolasillae sp. nov. p. 50 pl. ii
f. 3 a, b Cortina d'Ampezzo, LEONARDI
& FISCON Mem. Mus. Stor. nat. Venez.
Trident. 8 3 1948.

†*Ampullospira (Euspirocrommium)*
kouriatshyi sp. nov. Eocene Togo,
R. FURON Mém. Mus. Hist. nat. Paris
N.S. 27 4 1948 p. 103 pl. viii f. 18.

†*Crommium (Amauropsella) lineolata*
sp. nov. Eocene Togo, R. FURON
Mém. Mus. Hist. nat. Paris N.S. 27 4
1948 p. 102 pl. viii f. 17.

†*Euspira parvissima* sp. nov. Creta-
ceous, 4875-4885 ft. in the Maryland
Esso well, VOKES, H. A. Maryland
Dept. Geol. Mines & Water Resources
Bull. 2 1948 p. 144 pl. IV figs. 25, 26.

†*Globularia morrissi* nom. nov. =
Natica intermedia Morris & Lycett 1851
(non Deshayes 1832); *G. mitchellii*
sp. nov. *Natica vernisti* d'Arch, Morris
& Lycett 1851 (non d'Archiae) Great
Oolite, Minchinhampton, L. R. COX
& W. J. ARKELL Mon. Pal. Soc. London
Jan. 1950 p. 83.

†*Naricopsina cotswoldensis* sp. nov.
= *Natica globosa* Roem, Morris &
Lycett 1857 (non Grateloup 1828),
L. R. COX & W. J. ARKELL Mon. Pal.
Soc. London Jan. 1950 p. 85.

†*Natica (Polinices) togoensis* sp. nov.
Eocene Togo, R. FURON Mém. Mus.
Hist. nat. Paris N.S. 27 4 1948 p. 102
pl. viii f. 16; *Natica neglecta ligeriana*
nov. mut. Helvetian Touraine, A.
PEYROT Act. Soc. Linn. Bordeaux 89
Suppl. 1938 p. 77.

Polinices (Mammilla) clarki sp. nov.
Panama (Pacific) MAXWELL SMITH
Nautilus, Philad. 64 1950 p. 60 pl. 4
f. 7, 7a.

†*Ptychostoma pleurotomoide laubei*
pl. ii f. 1 a-b; *P. p. supranodosum*
pl. ii f. 5 a, b; *P. p. binodosum* pl. ii
f. 6 a, b; *P. wühneri kittli* pl. ii f. 7 a, b
vars. nov. Cortina d'Ampezzo, LEONARDI
& FISCON Mem. Mus. Stor. nat.
Venez. Trident. 8 3 1948 p. 51.

†*Sigaretus turonensis* emend for
turonicus Recluz in Chenu, A. PEYROT
Act. Soc. Linn. Bordeaux 89 Suppl. 1938
p. 82.

LAMELLARIACEA

Eratiidae—revision of the collection
of the Zoological Survey of India,
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Trivia monacha (Costa). *Trivia*
monacha arctica (Mont.) 302.

Triviidae revision of the collection of
the Zoological Survey of India, H. C.
RAY 698.

Uber strangei Dilation of the foot,
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†*Bernaya (Bernaya) sofegginensis* p. 63
pl. ii f. 10-12; *B. (B.) rostrifera* p. 64
pl. ii f. 13-14; *B. (Protocypraea)*
tripolitana p. 51 pl. ii f. 5-6 spp. nov.
Upper Cretaceous Libya, F. A. SCHIL-
DER Ann. Mus. libico Stor. nat. 3 1942.

Cypraea darwini sp. nov. South
Seymour Island, Galapagos Islands,
W. M. INGRAM Proc. Calif. Acad. Sci.
(4) 26 7 1948 p. 144 pl. 2 f. 10, 11.

Cypraea alleni sp. nov. Hawaii,
I. M. OSTERGAARD Nautilus, Philad. 63
1950 p. 111 pl. 8; *C. carneola* L., *C.*
isabella L., *C. helvola* L., *C. caputserpen-*
tis L., *C. maritima* L., *C. poraria* L.,
Eggs and Egg capsules, figs., J. M.
OSTERGAARD 617.

†*Cypraea (?) Eocypraea) murdochi*
p. 248 text-fig. 1 a-c; *C. (?) Bernayia)*
p. 249 text-fig. 1 d; spp. nov. Pahi
Greensand, North Auckland, C. A.
FLEMING Trans. R. Soc. N.Z. 78 2-3
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†*Eocypraea (Eocypraea) dux* sp. nov.
Upper Cretaceous, F. A. SCHILDER
Ann. Mus. libico Stor. nat. 3 1942
p. 67 pl. iii f. 19-21.

Pediculariidae—revision of the col-
lection of the Zoological Survey of India,
H. C. RAY 698.

Zoila vercoi Schilder 1930 (Zool.
Anz. Bd. 92, p. 74) the "Esperance
Cowry" holotype and three other
examples are seen to be quite distinct
from *Zoila friendii* (Gray) originally
taken at "Swan River," B. C. COTTON
168; *Z. marginata* Gaskoin 1848 ?
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B. C. COTTON 168.

TONNACEA

†*Argobuccinum* [sic = *Argobuccinum* Horrmannsen (ex Klein)] (*Fusitriton*) *riponense natorianum* subsp. nov. Kita-Akai, Miocene of the Moniwa Shell Bed, S. NOMURA Rep. Tôhoku Univ. 21 1 1940 p. 40 Pl. III (III) figs. 8a, 8b.

Bursa awatii sp. nov. Coromandel coast, India, H. C. RAY Rec. Indian Mus. 46 1949 p. 100 pl. iii f. 3-5.

†*Cassidea breistrofferi* sp. nov. Albion, S.E. France, G. DELPEY Trav. Lab. Géol. Univ. Grenoble 23 1942 p. 93 pl. ii f. 21, 22.

Cymatium rehderi sp. nov. Dominica, A. H. VERRILL Nautilus, Philad. 63 1950 pl. 9 f. 1, 1a.

†*Galeodea* (*Cassidaria*) *kouriathyi* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 106 pl. ix f. 7.

Fusitriton murrayi from west coast to Agulhas, fig., H. S. KOCH 434.

Morio echinophora L. monstrosity *ruggeri* m. nov., G. S. COEN Acta pont. Acad. Scient. 1950 p. 197 pl. 1.

†*Oniscia* (*Oniscidea*) *chavani* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 107 pl. ix f. 8.

†*Shichiheia* gen. nov. Cassididae genotype *Shichiheia etchuensis* sp. nov. Miocene, Kami-Shin, Kurose-dani-Mura, Nei-Gun, Toyama-Ken, Japan, K. HATAI & S. NISIIYAMA J. Paleont. 23 1 1949 p. 93 pl. 24 f. 1, 2, 7.

†*Tatara* gen. nov. Cymatiidae type *Cymatium pahiensis* Marshall & Murchison 1921 Eocene New Zealand, C. A. FLEMING Trans. R. Soc. N.Z. 78 2-3 1950 pp. 247, 248 pl. 24 f. 12.

Tonna Brunnick 1771 placed on official list, OPINIONS ETC. 7; *T. perdix* (L.) spawning and development, J. M. ØSTERGAARD 617.

Triton nodifer Lk. observations on the egg mass, P. BOUGIS 101.

PTENOGLOSSA

EPITONIACEA

†*Acirsa* (*Hemiagirsa*) *dautzenbergi* sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 137.

†*Dentiscala turonensis* sp. nov. (Boury MS.) Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 136.

Opalia (*Dentiscala*) *burryi* sp. nov. 4½ m. off Carysfort Light, Key Largo, Florida, 92-100 fms. p. 235 pl. 102 f. 1-3; *O. (Nodiscala) eolis* sp. nov. off Looe Key, Lower Florida Keys 70-90 fms. W. J. CLENCH & RUTH D. TURNER Johnsonia 2 29 1950.

†*Scala borgesii* sp. nov. Aptian from Chalala, near Lourenço Marques, J. V. L. RENNIE Bol. Serv. Min. Geol. Moçambique 9 1947 pp. 35, 73 pl. v figs 60, 61.

AGLOSSA

PYRAMIDELLACEA

†*Actaeopyramis cossmanni* sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 62 pl. ii f. 27-32.

†*Adelactaeon consobrinus* Peyrot nov. sp. [sp. nov.?] Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 313.

†*Anisocycla cossinanni* sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 72.

Beachystomia rissoides H., figs., W. E. ANKEL 39.

†*Fusoidella* nom. nov. *Fusoidella* Trias Kokeu 1898 non Reis 1897 "Monotype *F. orbignyana* Münster [*Fusus*]" W. WENZ Handb. Paläozool. 3 6, 1 1938 373.

†*Odontostomia turonensis* p. 54 pl. ii f. 44; *O. inedita* p. 55 spp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

Odostomia plicata Mont. W. E. ANKEL 39; *O. eulimoides* Hanley on *Chlamys varia* (L.), B. S. KISCH 427.

†*Pyrgostylus pictavicensis* p. 69; *P. dollfusi* p. 70; *P. lecointrei* p. 71 spp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Pyrgulina* (*Parthenina*) *dautzenbergi* p. 57 pl. iii f. 12, 17; *P. (Chrysallida) pulcherrima* p. 58; *P. (C.) fulvica* p. 58 pl. iv f. 36 spp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

Ramina **nom. nov.** = *Rama* J. Böhm 1895 non Bleeker 1858, type *R. ptychitica* (Kittl.) "[*Macrochilina*]" W. WENZ Handb. Paläozool. 3 1, 6 1938 p. 370.

†*Syrnola* (*Pachysyrnola*) *ligeriensis* **sp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 52 pl. 1 f. 39, 40.

†*Toxoconcha* (?) *soreghinae* **sp. nov.** Cortina d'Ampezzo, LEONARDI & FISCON Mem. Mus. Stor. nat. Venez. Trident. 8 5 1948 p. 53 pl. ii f. a, b.

†*Trajanella* *clansayesiensis* **sp. nov.** Albion, S.E. France, M. BREISTROFFER Trav. Lab. Géol. Univ. Grenoble 23 1942 p. 106.

†*Trajanella* *crassa* **sp. nov.** Cretaceous, Somaliland, G. TRAVANI Palaeontogr. ital. Pisa 45 1949 p. 17, pl. 1 (xii) f. 12.

†*Turbonilla* *pseudocostellatoides* **nom. mut.** = *T. costellatoides* Iv. & Peyr. p. 63; *T. (Strioturbonilla) turonensis* p. 67 pl. iii f. 29, 34 **sp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

STENOGLOSSA

(α) RHACHIOGLOSSA

Stenoglossa (*Nucella*) *lapillus* (L.), *Ocenebra* *erinacea* (L.) 302.

MURICACEA

Bassiella **nom. nov.** = *Bassia* Jousseaume 1880 non Q. & G. 1834, monotype, *H. texaplex*, *B. stainforthi* (Reeve) "[*Murex*]" Australia, W. WENZ Handb. Paläozool. 7 6, 1 Bd. 6 Tiel. 5 1941 p. 1089.

Busycotypus **nom. nov.** = *Sycotypus* Gill 1867 non Mörch 1852 type *Busycon* (*B.*) *canaliculatum* (Linné) "[*Murex*]" Miocene—Recent, W. WENZ Handb. Paläozool. 8 6, 1 1943 (Bd. 6 Teil. 5) p. 1219.

†*Chicoreus* *kendengensis* **sp. nov.** Marine Mollusca of the Kendeng Beds, East Java, C. O. VAN REGTEREN ALTENA Leidsche Geol. Meded. 15 1950 p. 206 text-figs. 1, 2.

†*Coralliophila* (*Mipus*) *tomlini* **sp. nov.** Marine Mollusca of the Kendeng Beds, East Java, C. O. VAN REGTEREN ALTENA Leidsche Geol. Meded. 15 1950

p. 217 text-fig. 10; *C. pontileviensis* **sp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 201 pl. iv f. 5, 6.

†*Hadriania* *fahunica* p. 192 pl. iv f. 67; *H. (Pseudomurex) helveticus* p. 194 pl. iv f. 54–56 **spp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

Maxwellia **gen. nov.** Muricidae genotype *Maxwellia gemma* (Sowerby) [= *Murex gemma* Sowerby]. *Maxwellia* also includes *Muricidea santarosana* Dell., *Murex fimbriatus* Adams, *Murex indentata* Carpenter. J. L. BAILY JR. Nautilus, Philad. 1950 64 1 pp. 9, 11.

Morula dumosa (Conrad) spawning and development, J. M. OSTERGAARD 617.

Murex pulcher consuela **subsp. nov.** 40–50 fms. off Soufriere, Dominica B.W.I., A. H. VERRILL Min. Conch. Club. S. Calif. 101 June 1950 pp. 6, 7 fig. p. 6; *M. maculatus* **sp. nov.** Dominica, A. H. VERRILL Nautilus, Philad. 63 1950 p. 126 pl. 9 f. 3.

Murex erinaceoides genus in some doubt, J. L. BAILY, JR. 50; *M. trunculus* structure of egg capsule, F. DULZETTO 206; *M. trunculus* liberation of Acetyoline, A. JULLIEN & J. RIPPLINGER 401; *M. trunculus*, fig., H. STAIGER 769; *M. argo*, Clench & Farfaute, a specimen from a fish trap between 30 and 50 fms., off La Bines Point, Dominica, A. H. VERRILL 842.

†*Murex* (*Phyllonotus*) *rutteni* **sp. nov.** Pliocene of Sekaenau Hill, E. Borneo, C. BEETS Leidsche Geol. Meded. 15 1950 p. 308 f. 3–4; *M. (Chicoreus) raouli* **nom. mut.** p. 179 pl. iii f. 18, 19, 21, 22; *M. pontileviensis* Tournouer (sp. rank ? olim *turonensis* var.) p. 182 Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Muricopsis* *dujardini* **sp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 186 pl. iii f. 8–10.

Ocenebra erinaceus, fig., H. STAIGER 769.

†*Ocenebra sub-lassaignci* p. 189 pl. iv f. 62–69; *O. (Ocenebrina) subscalaris* p. 190 pl. iv f. 43–48 : **sp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Ocinebrina vandervlerki* sp. nov. Marine Mollusca of the Kendeng Beds, E. Java, C. O. VAN REGTEREN ALTENA Leidsche Geol. Meded. 15 1950 p. 214 text-fig. 4.

Purpura lapillus, fig., H. STAIGER 767; *P. lapillus* Haploid chromosome number in Oögenesis = 18, H. STAIGER 770.

†*Purpura (Polytropicalicus) dautzenbergi* sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 198.

†*Purpuroidea gigas* sp. nov. Cretaceous Somaliland, G. TAVANI Palaeontogr. ital. Pisa 45 1949 p. 16 pl. iii (xiv) f. 2.

Rapana thomasiana egg cases, fig., A. R. CAHN 122.

Thais bufo (Lk.) breeding habits, V. K. CHARI 134.

Urosalpinx cinerea "The American Whelk Tingle" a pest of the Oyster Beds, fig., ANON 11.

BUCCINACEA

†*Antemetula beauforti* sp. nov. f. 1 = *Metula boettgeri* "[non Martin]" Pannekoek 1936, Lower Miocene; *A. ihlei* sp. nov. f. 2 = *Metula boettgeri* "[non Martin]" Tesch 1915, Pliocene and Pleistocene, C. O. v. R. ALTENA Bijdr. Dierk. 28 1949 p. 386 text-figs.

†*Atilia turonensis* sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 212 pl. iv f. 23-28.

†*Austrofusus* (s.s.) *solitaria* sp. nov. Tertiary New Zealand, R. K. DELL Dom. Mus. Rec. Zool. Wellington N.Z. 1950 p. 34 f. 6.

†*Austrosphaera* gen. nov. Buccinidae genotype *A. glabra* sp. nov. Upper Cretaceous of the Atlantic Coast of Tierra del Fuego, G. FURQUE & H. H. COMACHO Riv. Asoc. Geol. Argentina 44 1949 p. 289 pl. iv f. 6-7.

†*Buccinaria (Ootomella) javanensis* sp. nov. Marine Mollusca of the Kendeng Beds, E. Java, C. O. VAN REGTEREN ALTENA Leidsche Geol. Meded. 15 1950 p. 224 text-fig. 15.

†*Buccinulum oostinghi* sp. nov. Marine Mollusca of the Kendeng Beds, E. Java, C. O. VAN REGTEREN ALTENA Leidsche Geol. Meded. 15 1950, p. 230 text-fig. 19.

Busycon canaliculata and *carica* figs. of cells from the blood, W. C. GEORGE & J. H. FERGUSON 287; *B. carica* growth in the presence of Carbonic anhydride, K. M. WILBUR & K. G. ANDERSON 879.

Columbella rustica, fig., H. STAIGER 769.

†*Columbella (Alia) ligeriana* sp. nov. p. 204 pl. iv f. 45, 46 Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938; *C. (Alia) turonensis* emend. for *turanica* Mayer p. 203 Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Cominella bonnecarreri* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 107 pl. ix f. 9.

Cyclope niretea (L.) growth stages, figs., B. S. KISCH 426.

†*Cyrtochetus (Loxotaphrus) africanus* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 107 pl. ix f. 10.

†*Euthria adunca* Bronn. *turonensis* var. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 230 pl. iv f. 11-19.

Euthria cornea, fig., H. STAIGER 769.

Fulgoropsis subgen. nov. of *Busycon* subgenotype *Busycon* (F.) *pyrum* (Dillwyn) = *Bulla pyrum* Dillwyn 1817 Cat. i 485, E. S. MARKS Nautilus, Philad. 64 1950 p. 34.

†*Fusus (Levifusus?) palaeocenicus* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 108 pl. ix f. 13; *F. (Aptixis) turonensis* sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 235 pl. iv f. 16.

Hemifusus ternatanus egg cases, fig., A. R. CAHN 122.

Latirus kandai sp. nov. Japan, T. KURODA Jap. J. Malac. 16 1/4 1950 p. 51 f. 3.

Madiella nom. nov. = *Mada* Jeffreys 1887 non Mul ant 1850, *Mala* Cossmann 1901 non Distant 1884 type *Buccinum (M.) humphreysianum* Bennett, recent, W. WENZ Handb. Paläozool. 8 6, 1 1943 (Bd. 6, Teil 5) p. 1203.

Megalatractus aruanus *Murex aruanus* L. 1758 examples of this "largest living gastropod" occur at Cottesloe Rottneest Id. and Penguin Ids. in S.W. Australia. Hedley recorded it in 1905 from Exmouth Gulf and an egg case from Carnac Id. 7 m. S.W. of Freemantle: less elevated spires than Northern one and rounder outline of pire and body whorl: smaller size of Southern form.

†*Mitrella* (*Mitrella*) *palabuanensis acolytha* subsp. nov. Marine Mollusca of the Kendeng Beds, E. Java, C. O. VAN REGTEREN ALTENA Leidsche geol. Meded. 15 1950 p. 219 text-fig. 11; *M. scripta* L. *miocenica* var. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 205 pl. iv f. 24, 25.

Nassa reticulata in Walcheren canal, C. BRAKMAN 106; *N. reticulata* in Zuid-Beveland, B. J. J. R. WALRECHT 856.

Nassarius reticulatum (L.) and *Patella vulgata* L. stomach, A. GRAHAM 302.

†*Nassa* (*Hinia*) *reticulata* L. *ligeriana* var. nov. p. 214 pl. iv f. 52, 58, 63; *N. (Uzita) mantheia niensis* sp. nov. p. 215, pl. iv f. 22, 29; *N. (Hinina) turonensis* emend. for *turonense* Desh. p. 219 Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

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Pisania maculosa, fig., H. STAIGER 769.

†*Pseudoneptunea praevaricosa* sp. nov. Marine Mollusca of the Kendeng Beds, E. Java, C. O. VAN REGTEREN ALTENA Leidsche geol. Meded. 15 1950 p. 222 text-figs. 13, 14.

†*Pugilina* (*Hemifusus*) *elegantissima* sp. nov. Marine Mollusca of the Kendeng Beds, E. Java, C. O. VAN REGTEREN ALTENA Leidsche geol. Meded. p. 238 text-fig. 24.

Siphonellona nom. nov. = *Siphonella* Verrill 1879 non Hagenow 1851, *Neptunella* Verrill 1873 non Meek 1864 type *Sipho* (*S.*) *pygmaeus* (Gould) "[*Fusus*]" recent N. Atlantic, W. WENZ Handb. Paläozool. 7 6, 1 (Bd. 6, Teil. 5) 1941 p. 1155.

Streptochetus cancellatus sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 108 pl. ix f. 12.

Sycifulgur subgen. nov. of *Busycon* subgenotype *Busycon* (*Sycifulgur*) *rugosum* (Miocene) = *Fulgur rugosus* Conrad 1840 Proc. Acad. Nat. Sci. Philad. 1, 307, E. S. MARKS Nautilus, Philad. 64 1950 p. 34.

†*Tomlinia rapulum gracilis* subsp. nov. Marine Mollusca of the Kendeng Beds, E. Java, C. O. VAN REGTEREN ALTENA Leidsche geol. Meded. 15 1950 p. 234 text-figs. 21, 22.

†*Tritonidea* ? *pontileviensis* sp. nov. Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 227 pl. iv f. 44-47.

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Afrivoluta pringlei off Port Elizabeth, figd., H. S. KOCH 434.

†*Bivetiella* nom. nov. = *Bivetia* Jousseaume 1887 p. 193 non p. 163 type [*cancellaria*] (*B.*) *similis* Sowerby, Miocene, W. WENZ Handb. Paläozool. 8 6, 1 (Bd. 5, Teil. 5) p. 1356.

† ? *Closia aucklandica* sp. nov. Tertiary New Zealand, R. K. DELL Dom. Mus. Rec. Zool. Wellington N.Z. 1950 p. 36 f. 9.

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†*Lapparia* (*Pseudaulicina*) *simplex* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 109 pl. ix f. 15.

Marginella sinapi 6-9 fms. Sow and Pig Reef type; ocean beaches of Manly and Port Stephens p. 40 pl. v f. 15; *M. parsobrina* 30-35 fms. off Crookhaven test-fig. 1; *M. humerica* 12 fms. off Tacking Point, Port Macquarie p. 41 pl. v f. 17; *M. quinqueplicata* 5 fms. Twofold Bay (Roy Bell Coll.) p. 41 pl. v f. 22; *M. haswelli* 80 fms. 22 ms. E. of Narrabeen 3 exx. p. 42 pl. v f. 24; *M. cuneata* 5-20 fms. Twofold Bay (Roy Bell Coll.) recorded as *M. dentiens* nearer to *M. jaffa*; cotton from S. Australia which is smaller and has a tooth on outer

margin p. 43 pl. vi f. 31; *M. laeviplicata* 30-35 fms. off Crookhaven common on sandy to muddy bottom p. 44 pl. vi f. 35; *M. nielsenii* 25-60 fms. off Bateman's Bay, weedy bottom, 3 exx. p. 45 pl. vi f. 40; *M. rotunda* 30-35 fms. off Crookhaven p. 45 pl. vi f. 48; *M. amphora* 8-10 fms. off Point Halliday p. 46 pl. vi f. 43; *spp. nov. M. ochracea* Angar v. *creocere* 8-10 fms. off Point Halliday common p. 14 pl. vi f. 34; *M. angasi* Crosse v. *melania* alive under rocks North Harbour, Port Jackson p. 46 pl. vi f. 42: **vars. nov.** New South Wales, C. F. LASERON Rec. Aust. Mus. 22 1 1948; *M. hillii* *spp. nov.* Chamela Bay, Mexico (Pacific), MAXWELL SMITH Nautilus, Philad. 64 1950 p. 61 pl. 4 f. 6.

Melo miltonis from Cape Thevenard 1-1½ fms., Gt. Australian Bight, B. C. COTTON 171.

Meracamelon cassandra Pfr. 1864 "occurs alive and in number" on the Murray River cliffs, B. C. COTTON 169.

Mitra fordi *spp. nov.* New Providence, Bahamas p. 12 pl. 1 f. 4; *Mitra fluviimaris* off Palm Beach, Florida p. 13 pl. 1 f. 5 **spp. nov.**, PILSBRY & MCGINTY Nautilus, Philad. 63 1949.

Mitra astricta Reeve, *M. auriculoides* Rve. Eggs and egg-capsules, figs., J. M. OSTERGAARD 617.

†*Mitra miogallica* p. 239 pl. v f. 36-39; *M. dautzenbergi* p. 241 pl. iv f. 65 **spp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

†*Mitrolumna falunica* p. 244 pl. v f. 9-17; *M. turonensis* p. 245 pl. v f. 10-16; *M. (?) pictaviensis* p. 245; **spp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

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†*Volutilithes (Neothleta?) implicata* **spp. nov.** Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 110 pl. ix f. 16.

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(β) TOXOGLOSSA

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†*Asthenotoma falunica* *spp. nov.* Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 280 pl. v f. 58-62.

†*Bela (Buchozia) (?) dollfusi* *spp. nov.* Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938 p. 278 pl. v f. 12-14.

†*Clavatula asperulata* Lk. *ligeriana* **var. nov.** p. 262 pl. v f. 35; *C. turonensis* p. 263; *C. dujardini* p. 26 pl. v f. 42-48 Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

Conus gloria-maris in the world's collections, figs., W. S. S. v. B. JUTTING 407; *C. tahitensis* *rattus* Hwass, *C. omaria* Hwass, *C. catus* Hwass, *C. hebraeus* L., *C. sumatrensis* Hwass, *C. abbreviatus* Nuttall, Eggs and Egg capsules, fig., J. M. OSTERGAARD 617.

†*Conus moniwaensis* *spp. nov.* Moniwa, Miocene of the Moniwa Shell Bed, S. NOMURA Sci. Rep. Tôhoku Univ. 21 1 1940 p. 44 pl. ii (ii) fig. 16; *C. (Lithoconus) ligeriana* p. 257 pl. v f. 31 40; *C. (Dendroconus) gravis* p. 260 pl. v, f. 37-38; **spp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

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†*Daphnella (Raphitoma) miranda* p. 296 pl. v f. 6-13; *D. (R.) quadrata* p. 297 pl. v f. 59-61; *D. (R.) minutissime striata* p. 298 pl. v f. 65, 66; *D. (R.) angulata* p. 299 pl. v f. 57-63; *D. (Bellardiella) peusohistrix* p. 300 pl. v f. 1, 8; *D. (Raphitoma)* p. 301 pl. v f. 5; **spp. nov.** Helvetian Touraine, A. PEYROT Act. Soc. Linn. Bordeaux 89 Suppl. 1938.

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†*Plicatula huberti* sp. nov. Eocene Togo, R. FURON Mém. Mus. Hist. nat. Paris N.S. 27 4 1948 p. 101 pl. viii f. 13.

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†*Anomia urbismarina* sp. nov. Cretaceous 4875-4885 in the Maryland Esso Well, H. A. VOKES Maryland Dept. Geol. Mines & Water Resources Bull. 2 1948 p. 134 pl. iii figs. 24, 25.

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†*Cubitostrea sellaeformis* (Conrad) the successional evolution of the off branch of this stock, H. B. STENZEL 777.

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†*Anodonta splendens katharinæ* subsp. nov. Ortenburg Bayern, H. MODELL Arch. Mollusk. 79 1950 p. 30 pl. 7 f. 17.

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†*Anthracosia aquilina, atra plani-trimida, acutella, concinna fulva, nitida* LEITCH 488.

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